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L1 1 CN1228447/PN

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THE ESTIMATED COST FOR THIS REQUEST IS 2.57 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L1 ANSWER 1 OF 1 ZCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:428270 ZCAPLUS
DOCUMENT NUMBER: 133:18272
TITLE: Crosslinked polyacrylamide hydrogel for medical application and its preparing method
INVENTOR(S): Cao, Mengjun
PATENT ASSIGNEE(S): Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
INT. PATENT CLASSIF.:
MAIN: C08J003-075
SECONDARY: C08L033-26
CLASSIFICATION: 37-3 (Plastics Manufacture and Processing)
Section cross-reference(s): 63
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| CN 1228447 | A | 19990915 | CN 1999-116009 | 19990115 <-- |
| CN 1068612 | B | 20010718 | | |

ABSTRACT:
The raw material is composed of acrylamide 2.5-8, crosslinking agent 0.001-3.0, catalyst 0.001-4.00, accelerator 0.001-2.00, promotor 0.001-2.00, and water to 100%. The crosslinking agent is selected from N,N'-ethylenebisacrylamide or its homolog, and N,N'-diallyltartardiamide; the accelerator from NaHSO3, and Na metabisulfite; and the promotor from triethanolamine, triethylamine, and N,N'-ethylenediamine derivs. The process comprises dispersing the raw material in water, polymg. at 20-35.degree. for 10-25 h under bubbling N2, washing, soaking, extg., and dissolving in water to obtain 2.5-8.0% crosslinked polyacrylamide hydrogel.

SUPPL. TERM: crosslinked polyacrylamide hydrogel manuf medical application; ethylenebisacrylamide crosslinked polyacrylamide hydrogel; diallyltartardiamide crosslinked polyacrylamide hydrogel
INDEX TERM: Crosslinking catalysts
(amine derivs. and sodium bisulfite and sodium metabisulfite; manuf. of crosslinked polyacrylamide

hydrogel for medical application in presence of)
INDEX TERM: Crosslinking agents
(ethylenebisacrylamide and diallyltartardiamide; manuf. of crosslinked polyacrylamide hydrogel for medical application)
INDEX TERM: Hydrogels
(manuf. of crosslinked polyacrylamide hydrogel for medical application)
INDEX TERM: 7631-90-5, Sodium bisulfite 7681-57-4, Sodium metabisulfite
ROLE: CAT (Catalyst use); USES (Uses)
(crosslinking accelerators; manuf. of crosslinked polyacrylamide hydrogel for medical application in presence of)
INDEX TERM: 2956-58-3, N,N'-Ethylenebisacrylamide 58477-85-3, N,N'-Diallyltartardiamide
ROLE: MOA (Modifier or additive use); USES (Uses)
(crosslinking agents; manuf. of crosslinked polyacrylamide hydrogel for medical application)
INDEX TERM: 102-71-6, Triethanolamine, uses 121-44-8, Triethylamine, uses
ROLE: CAT (Catalyst use); USES (Uses)
(crosslinking promoters; manuf. of crosslinked polyacrylamide hydrogel for medical application in presence of)
INDEX TERM: 31132-41-9P, Acrylamide-N,N'-ethylenebisacrylamide copolymer
ROLE: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(manuf. of crosslinked polyacrylamide hydrogel for medical application)

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| COST IN U.S. DOLLARS | ENTRY | SINCE FILE SESSION | TOTAL |
|---|---|---|---|
| FULL ESTIMATED COST | | 4.85 | 5.15 |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | ENTRY | SINCE FILE SESSION | TOTAL |
|---|---|---|---|
| CA SUBSCRIBER PRICE | | -0.62 | -0.62 |

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